

COUNTY OF DUMFRIES.

TWENTY-EIGHTH

ANNUAL REPORT

BY THE


COUNTY MEDICAL OFFICER.

1918.

DUMFRIES.

MAXWELL & SON, PRINTERS AND LITHOGRAPHERS.

1919.



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REPORT.

Population.—Owing to the war conditions prevailing in the spring of the year, it was not possible to get the usual enumeration of the people made by the police. That for 1917 has accordingly been retained as being likely to give the estimate of population nearest to the actual that could be obtained. The figures are :—

Parishes.			Estimated.			Census 1911.
			M.	F.	Total.	
Northhill	...	...	5,109	5,859	10,968	11,710
Dunfries	...	...	3,675	4,419	8,094	8,555
Annan	8,052	11,333	19,385	10,515
Lockerbie	3,384	4,125	7,509	8,545
Langholm	1,394	1,566	2,960	3,242
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County Landward	21,614	27,302	48,916	42,567
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Burghs.						
Annan	3,087	2,430	5,517	4,219
Singular	725	815	1,540	1,508
Elchmahen	418	565	983	1,056
Lockerbie	1,011	1,302	2,313	2,455
Moffat	680	1,033	1,713	2,079
Langholm	1,272	1,644	2,916	2,930
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County and six Burghs			28,807	35,091	63,898	56,814

Births.—The births registered in the County Districts were 991, and in the Burghs 237. The details and rates for each District and Burgh are:—

Districts.			M.	F.	Total.	Birth-rate per 1000 persons living.
Thornhill	...	...	126	134	260	23·705
Dumfries	...	...	94	82	176	21·744
Annan	...	...	188	164	352	18·158
Lockerbie	...	...	65	71	136	18·111
Langholm	...	...	30	37	67	21·635
			—	—	—	—
County Landward	...	...	503	488	991	20·259
Burghs.						
Annan	...	...	54	38	92	16·675
Sanjubar	...	...	16	12	28	18·132
Lochnaben	...	...	6	11	17	17·294
Lockerbie	...	...	16	24	40	17·293
Moffat	...	...	14	13	27	15·762
Langholm	...	...	17	16	33	11·317
			—	—	—	—
County and six Burghs			626	602	1228	19·218

Of the 1228 births, 1101 were legitimate and 127 illegitimate. The proportion of legitimate births to married women living between the ages of 15 and 45 is shown in the following table:—

Districts.		Estimated number of married women living between 15 and 45.	Number of legitimate births.	Rate per 1000 married women living between 15 and 45.
Thornhill	...	1627	135	229·79
Dumfries	...	717	152	211·99
Annan	...	1836	321	174·83
Lockerbie	...	760	114	162·56
Langholm	...	255	61	239·23
		—	—	—
County Landward	...	4535	883	194·70

Burghs.	Estimated number of married women living between 15 and 45.	Number of illegitimate births.	Rate per 1000 married women living between 15 and 45.
Albion	459	83	180.83
Sanquhar	166	27	162.65
Lochmaben	79	14	177.22
Lockerbie	250	35	152.00
Moffat	138	25	181.16
Langholm	246	31	126.02
County and six Burghs	5873	1101	187.46

The proportion of illegitimate births to unmarried women and widows living between the ages of 15 and 45 and to the total births, were:—

Parishes.	Estimated number of unmarried women and widows living between 15 and 45.	Number of illegitimate births.	Rate per 1000 unmarried women and widows living between 15 and 45.	Rate per 1000 total births.
Greenhill	1536	25	16.28	100
Dumfries	1184	24	20.27	158
Annan	5187	31	5.98	97
Lochmaben	1138	22	19.33	193
Lochholm	435	6	13.79	98
County Landward	9480	108	11.39	122
Burghs.				
Albion	702	9	12.82	108
Sanquhar	234	1	4.27	37
Lochmaben	137	3	21.90	214
Lockerbie	369	2	5.42	53
Moffat	356	2	5.62	80
Langholm	513	2	3.90	64
County & six Burghs	11,791	127	10.77	115

Under the notification of Births Act all births require to be notified to the Medical Officer of Health within 36 hours of their occurrence. Whether due to the fact that there is as yet no scheme of Child Welfare in operation in the County or not, the requirements of the Act do not seem to be sufficiently known, there being a considerable discrepancy between the numbers notified and registered, as the following table shows :—

Districts.	Medical Practitioners Notifying.	Midwives Notifying.	Others Notifying.	Births Notified.	Births Registered.
Thornhill ...	7	...	1	242	260
Dumfries ...	7	2	2	131	176
Annan ...	7	5	...	284	352
Lockerbie ...	10	...	1	137	136
Langholm ...	5	...	1	65	67
Boroughs.					
Annan ...	1	...	...	28	90
Sanquhar ...	2	...	...	28	28
Lockerbie ...	3	...	...	43	40
Moffat ...	2	...	...	24	27
Langholm ...	2	...	...	32	32
	—	—	—	—	—
	46	7	5	1014	1211*

* Seventeen registered in Lochmaben Burgh not included.

Deaths. — The total number of deaths registered, the transfers (in and out), and consequent adjustments are :—

Districts		Total deaths registered.	Transfers in.	Transfers out.	Adjusted figures		
					Total	M	F
Thornhill ...	...	222	16	8	230	111	119
Dumfries ...	...	231	13	120	124	63	61
Annan	210	11	19	202	117	85
Lockerbie	126	17	5	138	59	79
Langholm	51	5	3	53	31	22
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County Landward		840	62	155	747	381	366
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Burghs							
Annan	65	9	1	73	35	38
Sanquhar	24	3	...	27	10	17
Lochnaben	23	2	2	23	12	11
Lockerbie	41	9	...	50	33	17
Moffat	39	3	4	38	18	20
Langholm	45	4	3	46	24	22
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County & six Burghs		1077	92	165	1004	513	491

The "transfers out" in the Dumfries District are chiefly from the Crichton Royal Institution, all out-County deaths in which are deducted, while County deaths are allotted to the respective towns from which the patients were admitted. The "transfers in" include not only the deaths of usual residents occurring in other parts of Scotland, but also such deaths as are intimated from other parts, more particularly from Carlisle, where the Cumberland Infirmary receives a fair proportion of patients from the south-eastern parts of Dumfriesshire. This practice in regard to "transfers" seems more logical than that of the Registrar-General, who does not transfer over the Border or across the Irish Sea a notation which raises the death-rate most unfairly in his returns for Dumfries District, while it probably gives a rate slightly below the proper figure in the eastern parts of the County.

The death-rates, crude, corrected for transfers, and also for age and sex distribution, are:—

Districts.				Crude death-rates.	Death-rates corrected for transfers.	Death-rates corrected also for age and sex distribution.
Thornhill	...	...	...	20.24	20.97	19.01
Dumfries	...	...	...	28.54	15.32	12.88
Annan	...	...	...	10.88	10.42	9.50
Lockerbie	...	...	...	16.78	18.38	16.63
Langholm	...	...	...	17.23	17.90	15.19
				—	—	—
County Landward	...	...	...	17.17	15.27	13.64
Burghs.						
Annan	...	...	...	11.78	13.23	12.74
Sanquhar	...	...	...	15.58	17.53	17.22
Lochmaben	...	...	...	23.40	23.40	17.93
Lockerbie	...	...	...	17.72	21.62	19.23
Moffat	...	...	...	22.77	22.18	18.54
Langholm	...	...	...	15.43	15.77	13.75
				—	—	—
County and six Burghs	...	...	...	16.86	15.71	14.50

The factors for the correction of age and sex distribution are:—Thornhill, .9064; Dumfries, .8406; Annan, .9114; Lockerbie, .9048; Langholm, .8485; County Landward, .8929; Annan Burgh, .9628; Sanquhar Burgh, .9826; Lochmaben Burgh, .7662; Lockerbie Burgh, .8896; Moffat Burgh, .8495; Langholm Burgh, .8714; County and six Burghs, .8227. These factors are calculated on the age and sex distributions of the population at the census 1911.

The classification of deaths, according to cause, in each District and Burgh, and the death-rates, corrected for transfers and age and sex distribution, are given in the four tables following.

DEATHS IN COUNTY DISTRICTS IN 1918.

CAUSE OF DEATH.	Thorn- hill.	Dum- fries.	Annan.	Lock- erbie.	Lang- holm.	County Total.
... Fever	1	...	...	...	...	1
... Fever . . . .	...	...	...	...	...	...
...
...	12	...	...	...	2	14
... Fever . . . .	...	...	...	1	...	1
...	3	1	1	2	4	11
... . . . .	...	...	2	1	...	3
...	11	6	5	15	2	39
... . . . .	...	...	1	...	...	1
... Phthisis	15	6	12	16	5	54
... Meningitis . . . .	...	...	2	...	...	2
... Tuberculosis . . . .	...	1	...	1	...	2
... Tuberculous Diseases . . . .	...	...	2	1	...	3
... Diseases	14	8	4	10	4	40
... Fever . . . .	...	1	...	...	...	1
...	2	1	6	2	...	11
... Heart Disease	24	9	13	12	2	60
...	15	13	6	3	2	39
... (malignant forms)	45	24	66	20	6	161
... Respiratory Diseases	3	2	5	...	1	11
... (under 2 years)	4	...	3	1	...	8
...	1	3	...	1	...	5
... (not Malignant)	3	...	2	...	...	5
... Diseases	4	...	5	3	...	12
... (Bright's Disease)	5	1	6	4	5	16
...	1	...	1	...	...	2
... and Accidents . . . .	...	...	1	...	...	1
...	11	6	15	5	3	40
... (including Suicide)	6	2	5	4	...	17
...	1	1	1	...	...	3
... Diseases	45	33	36	25	17	166
... Diseases	4	6	2	1	2	15
TOTAL	230	124	202	135	53	747

DEATH-RATES IN COUNTY DISTRICTS IN 1919.

(CORRECTED FOR AGE AND SEX DISTRIBUTION.)

CAUSE OF DEATH.	Thorn- hill.	Dum- fries.	Annan.	Lock- erbie.	Lang- holm.	County L'wd.
Enteric Fever . . . . .	.08	...	...	...	...	.018
Typhus Fever . . . . .	...	...	...	...	...	...
Smallpox . . . . .	...	...	...	...	...	...
Measles . . . . .	.99	...	...	...	.57	.255
Scarlet Fever . . . . .	...	...	...	.12	...	.018
Whooping-cough . . . . .	.25	.10	.05	.24	1.15	.201
Diphtheria . . . . .	...	...	.09	.12	...	.055
Influenza . . . . .	.91	.62	.24	1.81	.57	.712
Erysipelas . . . . .	...	...	.05	...	...	.018
Pulmonary Phthisis	1.24	.62	.56	1.93	1.43	.986
Tuberculous Meningitis . . . . .	...	...	.09	...	...	.037
Abdominal Tuberculosis . . . . .	...	.10	...	.12	...	.037
Other Tuberculous Diseases . . . . .	...	...	.09	.12	...	.055
Malignant Diseases	1.16	.83	.19	1.20	1.15	.739
Malarial Fever . . . . .	...	.10	...	...	...	.018
Meningitis . . . . .	.17	.10	.28	.24	...	.201
Organic Heart Disease	1.98	.93	.61	1.45	.57	1.095
Bronchitis	1.24	1.35	.28	.36	.57	.712
Pneumonia (all forms)	3.72	2.49	3.10	2.41	1.72	2.939
Other Respiratory Diseases . . . . .	.25	.21	.24	...	.29	.201
Enteritis (under 2 years) . . . . .	.33	...	.14	.12	...	.116
Appendicitis . . . . .	.08	.31	...	.12	...	.091
Liver Diseases (not Malignant) . . . . .	.25	...	.09	...	...	.031
Other Digestive Diseases . . . . .	.33	...	.24	.36	...	.219
Nephritis (Bright's Disease) . . . . .	.41	.10	.28	.48	.81	.347
Puerperal Diseases . . . . .	.08	...	.05	...	...	.037
Other Diseases and Accidents of Pregnancy, &c. . . . .	...	...	.05	...	...	.018
Congenital Causes . . . . .	.91	.62	.71	.60	.86	.739
Violence (excluding Suicide) . . . . .	.50	.21	.24	.48	...	.310
Syncope . . . . .	.08	.10	.05	...	...	.055
Other Defined Diseases	3.72	3.43	1.69	4.22	4.87	3.950
Ill-Defined Diseases . . . . .	.33	.62	.09	.12	.57	.271
TOTAL	19.007	12.878	9.496	16.626	15.193	13.635

DEATHS IN COUNTY BURGHS IN 1918.

CAUSE OF DEATH.	Annan Burgh.	San- quhar Burgh.	Loch- maben Burgh.	Lock- erbie Burgh.	Moffat Burgh.	Long- John Burgh.
Enteric Fever . . . . .	...	...	...	...	...	...
Typhus Fever . . . . .	...	...	...	...	...	...
Smallpox . . . . .	...	...	...	...	...	...
Measles . . . . .	...	4	...	...	...	...
Scarlet Fever . . . . .	...	...	...	...	...	...
Whooping-cough . . . . .	...	...	1	...	...	1
Diphtheria	2	...	3	...	...	1
Influenza	5	...	1	1	2	1
Erysipelas . . . . .	...	...	...	...	...	...
Primary Phthisis	5	1	3	3	1	2
Tuberculous Meningitis . . . . .	...	...	...	...	...	...
Chrominal Tuberculosis	1	...	...	...	1	...
Other Tuberculous Diseases . . . . .	...	...	...	1	...	1
Malignant Diseases	3	2	1	1	3	4
Septicæmic Fever . . . . .	...	...	...	...	...	...
Septicæmia . . . . .	...	...	...	1	...	...
Coronary Heart Disease	4	1	1	12	3	5
Myocarditis	2	2	1	5	2	1
Pneumonia (all forms)	17	5	2	3	10	3
Other Respiratory Diseases	2	...	...	1	...	2
Enteritis (under 2 years) . . . . .	...	...	...	...	...	...
Appendicitis . . . . .	...	...	...	...	...	...
Other Diseases (not Malignant) . . . . .	...	1	...	1	...	...
Other Digestive Diseases	1	...	...	2	1	...
Jaundice (Bright's Disease)	5	1	...	3	...	3
Septicæmic Sepsis . . . . .	...	...	...	...	...	...
Other Diseases and Accidents . . . . .	...	...	...	...	...	...
Of Pregnancy, &c. . . . .	...	1	...	...	...	...
Congenital	4	2	2	3	...	...
Violence (excluding Suicide)	1	1	...	...	...	1
Suicide . . . . .	...	...	...	1	...	...
Other Defined Diseases	10	6	8	12	15	10
Undefined Diseases	2	...	...	...	...	1
TOTAL	73	27	23	50	38	46

The AGE and SEX DISTRIBUTION of the 1004 deaths (District and Burghal) was:—

		Estimated population in age periods.	Number of deaths.	Rate per 1000 living in each age-period.	Percentage of deaths in each age-period to total deaths
MALES.	Under 1 year	626	77	123.00	15.01
	1—5 years	2,200	39	17.73	7.60
	5—15 „	5,500	22	4.00	4.29
	15—25 „	5,436	25	4.60	4.87
	25—45 „	7,810	94	12.03	18.32
	45—65 „	5,500	89	16.18	17.55
	Over 65 „	1,735	167	96.25	32.55
FEMALES.	Under 1 year	602	34	56.48	6.02
	1—5 years	2,350	22	9.36	4.48
	5—15 „	5,920	16	2.70	3.26
	15—25 „	3,746	42	4.80	5.55
	25—45 „	8,900	91	10.22	18.53
	45—65 „	6,052	102	16.85	20.77
	Over 65 „	2,521	184	72.99	37.47
TOTALS.	Under 1 year	1,228	111	90.39	11.06
	1—5 years	4,550	61	13.41	6.08
	5—15 „	11,420	38	3.33	3.78
	15—25 „	14,182	67	4.72	6.67
	25—45 „	16,710	185	11.07	18.45
	45—65 „	11,552	191	16.53	19.02
	Over 65 „	4,256	351	82.47	34.96

Infantile Mortality.—The deaths of children under one year of age were 111 (77 male, 34 female). The rate per 1000 births was 90.39, the male infantile mortality being 123.00, while the female was 56.48. The mortality rates for each District and Burgh were:—Thornhill District, 107.69; Dumfries District, 85.23; Annan District, 88.07; Lockerbie District, 80.88; Langholm District, 104.48; County Landward, 92.83; Annan Burgh, 54.35;

Among children born in wedlock the mortality was 85.4 per 1000 births, while among those born out of wedlock it was 133.8.

The deaths in the County Districts and Burghs of Annan, Sanquhar, Lochmaben, Lockerbie, Moffat, and Langholm, classified in age-groups and according to cause were :—

CAUSE OF DEATH.	-1	1-	5-	10-	15-	25-	35-	45-	55-	65-	75-	All ages.
Enteric Fever . . . . .	...	...	1	...	...	...	...	...	...	...	...	1
Typhus Fever . . . . .	...	...	...	...	...	...	...	...	...	...	...	...
Smallpox . . . . .	...	...	...	...	...	...	...	...	...	...	...	...
Measles	3	15	...	...	...	...	...	...	...	1	...	19
Scarlet Fever . . . . .	...	...	...	...	...	...	...	...	...	...	...	...
Whooping-cough	6	7	...	...	...	...	...	...	...	...	...	13
Diphtheria	1	2	4	2	...	...	...	...	...	...	...	9
Influenza	3	3	2	2	4	12	6	6	3	5	2	49
Erysipelas . . . . .	...	...	...	...	1	...	...	...	...	...	...	1
Pulmonary Phthisis . . . . .	...	...	...	3	15	15	14	9	11	4	...	66
Tuberculous Meningitis . . . . .	...	2	...	...	...	...	...	...	...	...	...	2
Abdominal Tuberculosis . . . . .	...	2	...	...	1	1	...	...	...	...	...	4
Other Tuberculous Diseases	2	...	...	1	1	1	...	...	...	...	...	5
Malignant Diseases . . . . .	...	...	...	...	...	2	2	7	16	17	10	54
Rheumatic Fever . . . . .	...	...	...	...	...	...	...	1	...	...	...	1
Meningitis	3	3	1	1	2	...	2	...	...	...	...	12
Organic Heart Disease . . . . .	...	...	...	...	...	5	4	9	20	31	17	66
Bronchitis	7	1	...	...	...	4	4	3	7	12	15	53
Pneumonia (all forms)	12	15	7	5	34	43	39	18	9	11	10	201
Other Respiratory Diseases	1	1	...	...	1	1	...	3	2	4	3	16
Enteritis (under 2 years)	7	1	...	...	...	...	...	...	...	...	...	8
Appendicitis . . . . .	...	...	1	...	1	...	1	2	...	...	...	5
Liver Diseases (not Malignant) . . . . .	...	1	...	...	...	...	...	...	1	2	...	7
Other Digestive Diseases . . . . .	...	2	...	...	1	1	1	1	5	4	1	16
Nephritis (Bright's Disease) . . . . .	...	2	...	...	...	3	3	6	4	9	4	37
Puerperal Sepsis . . . . .	...	...	...	...	...	1	1	...	...	...	...	2
Other Diseases and Accidents of Pregnancy, &c. . . . .	...	...	...	...	1	1	...	...	...	...	...	2
Con genital Causes . . . . .	...	...	...	...	...	...	...	...	...	...	...	51
Violence (excluding Suicide) . . . . .	...	3	2	...	3	5	4	...	1	2	...	20
Suicide . . . . .	...	...	...	...	...	1	1	...	1	1	...	4
Other Defined Diseases	12	3	2	4	2	1	7	10	27	54	123	245
Ill-Defined Diseases	3	...	...	...	...	...	1	...	6	3	5	18
TOTAL	111	61	20	18	67	85	79	72	110	124	101	1004

Birth and Death Rates of Parishes.

(Corrected for Transfers, but not for Age and Sex Distribution.)

Parish.	Estimated population.	Births.	Deaths.	Rates per 1000.	
				Birth.	Death.
Closeburn ...	764	15	18	19.63	23.56
Dunscore ...	805	15	21	18.63	26.09
Durisdeer ...	775	19	9	24.52	11.61
Glencairn ...	1151	16	21	13.90	18.24
Keir ...	420	3	5	7.14	11.90
Kirkconnel ...	2887	101	65	34.98	22.51
Morton ...	1523	37	31	24.29	20.35
Penpont ...	785	11	16	14.01	20.33
Sanguhar Landward	1570	39	39	24.84	24.84
Tynron ...	288	4	5	13.89	17.36
Caerlaverock ...	682	17	15	24.93	21.99
Dumfries Landward	3249	45	32	13.85	9.85
Holywood ...	768	22	17	28.65	22.14
Kirkmahoe ...	1024	25	9	24.41	8.79
Kirkmichael ...	648	15	12	23.15	18.52
Mouswald ...	421	12	6	28.50	14.25
Tinwald ...	642	18	14	28.04	21.81
Torthorwald ...	660	22	19	33.33	28.79
Annan Landward	2523	54	54	21.40	21.40
Cummerstrees ...	964	16	15	16.60	15.56
Dalton ...	485	10	8	20.62	16.49
Dornock ...	4250	75	24	17.65	5.65
Gretna ...	7547	101	57	13.38	7.55
Half-Tonton ...	271	11	2	40.59	7.38
Kirkpatrick-Flem.	1246	34	18	27.29	14.45
Middlebie ...	1427	40	16	28.03	11.21
Ruthwell ...	672	11	8	16.37	11.90
Applegarth ...	685	12	15	17.52	21.90
Dryfesdale ...	661	15	17	22.69	25.72
Hoddorn ...	1239	17	20	13.72	16.14
Hutton & Corrie...	514	6	10	11.67	19.45

Parish.	Estimated population.	Births.	Deaths.	Rates per 1000	
				Birth.	Death.
Johnstone ...	643	13	10	20.22	15.55
Kirkpatrick-Juxta	875	18	15	20.57	17.14
Lochmaben L'ward	1237	21	23	16.98	18.59
Moffat Landward...	487	8	10	16.43	20.53
St. Mungo ...	505	6	7	11.88	13.86
Tundergarth	319	8	8	25.09	25.09
Wamphray	344	9	3	26.16	8.72
Canonbie ...	1690	45	34	26.63	20.12
Eskdalemuir	358	8	6	22.35	16.76
Ewes ...	210	1	1	4.76	4.76
Langholm Landward	337	9	7	26.71	20.77
Westerkirk	365	4	5	10.96	13.70

Infectious Diseases.

Four hundred and thirty-eight notifications were received. These included 1 of Enteric Fever (doubtful), 92 of Scarlet Fever, 111 of Diphtheria, 23 of Erysipelas, 4 of Puerperal Fever, 2 of Cerebro-Spinal Fever, 157 of Tuberculosis, and 38 of Measles (the latter being from the Langholm District). The proportion of cases notified (other than Measles) to 1000 persons living was 6.24. The distribution of the cases (other than Measles) over the County was:—

Districts.	Cases									
	Enteric Fever.	Scarlet Fever.	Diphtheria.	Erysipelas.	Cerebro-Spinal Fever.	Puerperal Fever.	Tuberculosis.	Measles.	Total.	Total.
Bochnum...	...	1	...	...	...	1	1	...	...	4
Bonscore	1	...	...	3	1	...	5
Bonsdeer...	1	...	1
Blancairn	...	1	...	...	...	...	1	1	...	3
Bon...	2	...	...	...	1	1	...	4
Birkconnel	...	14	...	2	1	...	11	11	...	39
Borton	3	...	...	3
Bonpont	...	1	...	1	...	...	3	...	...	5
Bonquhar	1	1	1	...	...	...	2	3	...	8
Bonron	...	5	...	...	...	...	...	...	...	5
Bonhill District	1	23	3	4	1	1	26	18	...	77

Districts.	Enteric Fever.	Scarlet Fever	Diph- theria.	Erysip- elas.	Puerp. Fever.	Cerebro- Spinal Fever.	Tuberculosis.		Tls
							Pulmon.	Other.	
Merlaverock	2	1	3
Mumfries Landward	3	5	...	...	12	1	21
Polywood	1	...	3	1	5
Kirkmahoe	2	...	2
Kirkmichael	6	1	1	8
Couswald	1	1	...	2
Pinwald	2	...	2
Northorwald	2	1	1	1	5
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Mumfries District	11	6	1	1	24	5	48
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Annan Landward	6	18	3	7	1	35
Summertrees	1	1	...	1	...	3
Dalton	1	1	...	2
Dornock	1	7	1	1	...	1	2	13
Bretna	12	9	9	9	...	39
Half-Morton	1	1	2
Kirkpatrick-Flem.	3	1	4
Middlebie	15	1	1	...	17
Ruthwell	1	2	2	5
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Annan District	36	36	14	2	...	25	7	120
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Applegarth	2	9	2	...	13
Dryfesdale	1	1	1	...	3
Hoddon	1	3	1	5
Hutton	1	1	1	3
Johnstone	2	...	1	1	...	4
Kirkpatrick-Juxta	4	...	4
Lochmaben L'wd.	4	1	2	...	7
Moffat Landward	1	1	2	2	6
St Mungo	3	3
Tundergarth	1	2	...	3
Wamphray	5	1	...	6
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Lockerbie District	14	19	4	16	4	57

Districts.	Enteric Fever.	Scarlet Fever.	Diph- theria.	Erysip- elas.	Puerp. Fever.	Cerebro- Tuberculosis.			Tot.
						Spinal Fever.	Pulmon.	Other.	
Canonbie	2	3	...	...	...	2	1	6
Edkdalemuir
Ewes	1	...	...	...	...	...	...	1
Langholm L'wd....	1	...	...	...	...	1	2
Westerkirk	2	...	2
Langholm District	...	3	4	...	...	...	4	2	13
County Landward	1	76	73	28	4	2	95	36	315
Burghs.									
Annan	5	18	2	...	...	5	3	33
Sanquhar	1	...	...	2	...	3
Lochmaben	6	1	...	...	2	...	9
Lockerbie	9	6	...	...	...	3	...	18
Moffat	1	4	1	...	...	3	...	9
Langholm	1	4	...	...	...	7	1	13
County & six Burghs	1	92	111	33	4	2	117	40	400

The distribution in time (or notifications received each month) was :—

	Enteric Fever.	Scarlet Fever.	Diph- theria.	Erysip- elas.	Puerp. Fever.	Cerebro- Tuberculosis			Tot.
						Spinal Fever.	Pulmon.	Other.	
January	2	5	5	1	...	7	4	24
February	6	6	6	...	...	9	1	28
March	1	17	1	...	1	9	5	34
April	2	12	3	...	1	6	7	31
May	17	8	5	...	...	17	6	53
June	24	7	1	2	...	15	5	54
July	10	8	1	1	...	6	2	28
August	5	12	...	...	...	12	1	30
September	9	16	3	...	...	12	2	42
October	11	7	1	...	...	11	6	36
November ...	1	3	9	4	...	...	5	1	23
December	2	4	3	...	...	8	...	17
Totals ...	1	92	111	33	4	2	117	40	400

The returns made to the Local Government Board for each District and Burgh are summarised in the following table :—

A.—NUMBER OF CASES NOTIFIED TO THE MEDICAL OFFICER OF HEALTH UNDER THE INFECTIOUS DISEASE (NOTIFICATION) ACT, 1889.

DISEASE.	At all Ages.	Under 1.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and upward.	Cases removed to Hospital.	Cases removed to Hospital.
Typhoid or Enteric Fever	1	...	...	1	...	...	...	...	...	1
Typhus Fever	...	...	...	...	...	...	...	...	...	...
Smallpox	...	...	...	...	...	...	...	...	...	...
Scarlet Fever or Scurf-tina	92	...	12	56	18	6	...	...	87	5
Diphtheria and Membranous Croup	111	...	20	55	20	12	3	1	100	11
Erysipelas	33	...	...	...	9	8	13	3	7	26
Pustular Fever	4	...	...	...	...	4	...	...	...	4
Cholera	...	...	...	...	...	...	...	...	...	...
Relapsing Fever	...	...	...	...	...	...	...	...	...	...
Continued Fever	...	...	...	...	...	...	...	...	...	...
Cerebro-Spinal Fever	2	...	1	...	...	1	...	...	2	...
TOTAL	243	...	33	112	47	31	16	4	196	47

2.—NOTIFIED UNDER THE PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS (SCOTLAND), 1914.

Pulmonary Tuberculosis	117	1	2	8	36	53	15	2	38*	79
Non pulmonary Tuberculosis	40	...	7	12	9	8	4	...	21*	19
GRAND TOTAL	400	1	42	132	92	92	55	6	255	145

* Twelve cases notified prior to 1914 not included in these figures.

Only one case of Enteric Fever was notified during the year. As already stated in the Quarterly Report, the patient died before the notification was received, but the history and subsequent events showed that the diagnosis was at least uncertain.

The Scarlet Fever statistics show that seventy households were affected. Fifty-six had one patient in each, ten had two, two had three, and two five in each. Eighty-five cases were removed to hospital. There were three deaths, giving a fatality rate of 3.26 per cent. of cases notified, and a mortality rate of 0.017 per 1000 persons living. The attack rate was 1.44 per 1000.

Diphtheria attacked eighty-nine families, affecting one person in seventy-three of these, two in eleven, three in four, and four in one. Of the total number notified (111) the diphtheria bacilli were found in swabs from seventy-five, were not found in swabs from thirty, and in six no examination was made. There were nine deaths, giving a fatality rate of 8.1 per cent. of cases notified, a mortality rate of 0.14 per 1000 persons living, and an attack rate of 1.74 per 1000.

Erysipelas attacked thirty-three persons, but caused no fatalities. Puerperal Fever was the subject of four notifications. There were two recoveries and two deaths.

Cerebro-Spinal Fever was notified twice. One of the cases was a soldier from a New Zealand camp in the South of England, where several cases had occurred; the other was a child in the Parish of Mouswald, whose father was serving as a soldier, but no definite history connecting the child with a previous case could be obtained. The diagnosis in both was confirmed by bacteriological examination of the fluid obtained by lumbar puncture. They were removed to Lochmaben Hospital, where they recovered.

One hundred and fifty-seven intimations of cases of Tuberculosis were received. Of these, 117 were suffering from Pulmonary Disease, 22 from Glandular, 13 from

Osseous and Joint, 2 from Meningeal, one from Empyema, one from Abdominal, and one from Prostatic Disease. Among these were forty-five deaths, of which ten were transferred out, leaving thirty-five. In addition, thirty-four deaths occurred among persons notified in previous years, and eleven (two being transferred in) among persons who had not been notified. The total number of deaths from Tuberculosis was therefore 80, of which 69 were due to Pulmonary Disease, 2 to Meningeal, 4 to Abdominal, and 5 to other forms of Tuberculosis. Twenty-five cases were sent to the Dumfries and Galloway Royal Infirmary, twenty to Lochmaben Hospital, fifteen to Bridge-of-Weir Sanatorium, and eleven to Westmorland Sanatorium. Of these seventy-one, twelve were cases notified prior to 1918. At the end of the year there were 22 Shelters in use in various parts of the County. Of the total cases notified, 63 (including 9 discharged soldiers) were insured under the National Insurance Act. Eleven were inmates of Institutions and nine were temporary residents.

Hospitals.—The admissions were:—

		Enteric Fever.	Scarlet Fever.	Diph- theria.	Other Causes.	Totals.
Thornhill Hospital	Thornhill District	...	22	2	...	24
	Anquhar Burgh	...	...	...	...
Lochmaben Hospital.	Dumfries District	10	1	81
	Lockerbie District	...	14	19	1	
	Lochmaben Burgh	...	...	6	...
	Lockerbie Burgh	...	9	6	2	
	Moffat Burgh	...	1	3	...	
	Thornhill District	...	...	...	1
	Annan District	...	1	2	5	81
Annan Hospital.	Annan District	...	31	28	...	
	Annan Burgh	...	5	17	...	11
Fiskdale Hospital.	Langholm District	...	3	2	...	
	Langholm Burgh	...	1	4	...	
	Annan District	...	...	1	...

The cases included under "other diseases," were 2 of Cerebro-Spinal Fever, 7 of Erysipelas, and 1 of German Measles. In addition, 20 cases of Pulmonary Phthisis were sent to Lochmaben Hospital.

For further notes on Laboratory and Sanitary work reference may be made to the Quarterly Reports. A Venereal Diseases Scheme has now been formulated, and will be completed when arrangements are made for a Treatment Centre. Details of the scheme are attached to the fourth Quarterly Report. A Child Welfare Scheme has not yet been arranged, but a conference of Local Authorities has been called to consider the formation of a combination for this work.